Safety Data Sheet

acc. to GHS-NZ

2K HARDNER ACTIVATOR

Version number: GHS 3.0
Replaces version of: 2023-04-10 (GHS 2)

Revision: 2024-01-08

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name	**2K HARDNER ACTIVATOR**
Product code(s)	43211B, 43214B, 43215B, 43216B

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Paint related material

1.3 Details of the supplier of the safety data sheet

e-mail (competent person)	support@porproducts.com

1.3 Details of the supplier of the safety data sheet

Manufacturer: P.O.R. Products: 38 Portman Road: New Rochelle: NY 10801: United States: support@porproducts.com: www.porproducts.com:	**Supplier of Product:** HGLB Holdings Limited Registered Office 69 Rutherford Street Lower Hutt 5010 Sales@por15nz.com 021-446682 :

1.4 Emergency telephone number

New Zealand ((Mon - Fri, 09:00-17:00 NZST)	NZ Poisons Information Center: 0800 764 766 or +(64) 3 474 7000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

This mixture does not meet the criteria for classification.

2.2 Label elements

Labelling

not required

2.3 Other hazards

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of ≥ 0,1%.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of ≥ 0,1%.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS
Homopolymer of Hexamethylene Diisocyanat	CAS No 28182-81-2	25 – < 50	Acute Tox. 5 / H313 Acute Tox. 3 / H331 Skin Sens. 1 / H317 STOT SE 3 / H335
Ethyl 3-ethoxypropanoate	CAS No 763-69-9	10 – < 25	Flam. Liq. 3 / H226 Acute Tox. 5 / H313 Aquatic Acute 3 / H402
xylene	CAS No 1330-20-7	5 – < 10	Flam. Liq. 3 / H226 Acute Tox. 5 / H303 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Asp. Tox. 1 / H304 Aquatic Acute 2 / H401
ethyl benzene	CAS No 100-41-4	1 – < 5	Flam. Liq. 3 / H226 Acute Tox. 5 / H303 Acute Tox. 4 / H332 STOT RE 2 / H373 Asp. Tox. 1 / H304 Aquatic Acute 2 / H401 Aquatic Chronic 2 / H411
Hexamethylene-1,6Diisocyanate	CAS No 822-06-0	0 – < 0.1	Acute Tox. 4 / H302 Acute Tox. 1 / H330 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Resp. Sens. 1 / H334 Skin Sens. 1 / H317 STOT SE 3 / H335
2,6-tert-Butyl-p-cresol; Dibutylhydroxytoluene; BHT	CAS No 128-37-0	0 – < 0.1	Acute Tox. 5 / H313 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO2)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

There is no additional information.
Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials" (Section 10).

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)
this information is not available

Relevant DNELs of components

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Homopolymer of Hexamethylene Diisocyanat	28182-81-2	DNEL	0.5 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
Homopolymer of Hexamethylene Diisocyanat	28182-81-2	DNEL	1 mg/m³	human, inhalatory	worker (industry)	acute - local effects
Ethyl 3-ethoxypropanoate	763-69-9	DNEL	610 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Ethyl 3-ethoxypropanoate	763-69-9	DNEL	610 mg/m³	human, inhalatory	worker (industry)	chronic - local effects

Relevant DNELs of components

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Ethyl 3-ethoxypropanoate	763-69-9	DNEL	102 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
xylene	1330-20-7	DNEL	221 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
xylene	1330-20-7	DNEL	442 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
xylene	1330-20-7	DNEL	221 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
xylene	1330-20-7	DNEL	442 mg/m³	human, inhalatory	worker (industry)	acute - local effects
xylene	1330-20-7	DNEL	212 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
ethyl benzene	100-41-4	DNEL	77 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
ethyl benzene	100-41-4	DNEL	293 mg/m³	human, inhalatory	worker (industry)	acute - local effects
ethyl benzene	100-41-4	DNEL	180 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Hexamethylene-1,6Diisocyanate	822-06-0	DNEL	0.035 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
Hexamethylene-1,6Diisocyanate	822-06-0	DNEL	0.07 mg/m³	human, inhalatory	worker (industry)	acute - local effects
2,6-tert-Butyl-p-cresol; Dibutylhydroxytoluene; BHT	128-37-0	DNEL	3.5 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
2,6-tert-Butyl-p-cresol; Dibutylhydroxytoluene; BHT	128-37-0	DNEL	0.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Relevant PNECs of components

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
Homopolymer of Hexamethylene Diisocyanat	28182-81-2	PNEC	0.127 $^{mg}/_{l}$	aquatic organisms	freshwater	short-term (single instance)
Homopolymer of Hexamethylene Diisocyanat	28182-81-2	PNEC	0.013 $^{mg}/_{l}$	aquatic organisms	marine water	short-term (single instance)
Homopolymer of Hexamethylene Diisocyanat	28182-81-2	PNEC	266,701 $^{mg}/_{kg}$	aquatic organisms	freshwater sediment	short-term (single instance)
Homopolymer of Hexamethylene Diisocyanat	28182-81-2	PNEC	26,670 $^{mg}/_{kg}$	aquatic organisms	marine sediment	short-term (single instance)

Relevant PNECs of components

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
Homopolymer of Hexamethylene Diisocyanat	28182-81-2	PNEC	53,183 mg/kg	terrestrial organisms	soil	short-term (single instance)
Homopolymer of Hexamethylene Diisocyanat	28182-81-2	PNEC	6.46 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Ethyl 3-ethoxypropanoate	763-69-9	PNEC	0.061 mg/l	aquatic organisms	freshwater	short-term (single instance)
Ethyl 3-ethoxypropanoate	763-69-9	PNEC	0.006 mg/l	aquatic organisms	marine water	short-term (single instance)
Ethyl 3-ethoxypropanoate	763-69-9	PNEC	50 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Ethyl 3-ethoxypropanoate	763-69-9	PNEC	0.419 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Ethyl 3-ethoxypropanoate	763-69-9	PNEC	0.042 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Ethyl 3-ethoxypropanoate	763-69-9	PNEC	0.048 mg/kg	terrestrial organisms	soil	short-term (single instance)
xylene	1330-20-7	PNEC	0.327 mg/l	aquatic organisms	freshwater	short-term (single instance)
xylene	1330-20-7	PNEC	0.327 mg/l	aquatic organisms	marine water	short-term (single instance)
xylene	1330-20-7	PNEC	6.58 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
xylene	1330-20-7	PNEC	12.46 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
xylene	1330-20-7	PNEC	12.46 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
xylene	1330-20-7	PNEC	2.31 mg/kg	terrestrial organisms	soil	short-term (single instance)
ethyl benzene	100-41-4	PNEC	0.1 mg/l	aquatic organisms	freshwater	short-term (single instance)
ethyl benzene	100-41-4	PNEC	0.01 mg/l	aquatic organisms	marine water	short-term (single instance)
ethyl benzene	100-41-4	PNEC	9.6 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
ethyl benzene	100-41-4	PNEC	13.7 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
ethyl benzene	100-41-4	PNEC	1.37 mg/kg	aquatic organisms	marine sediment	short-term (single instance)

Relevant PNECs of components

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
ethyl benzene	100-41-4	PNEC	2.68 $^{mg}/_{kg}$	terrestrial organisms	soil	short-term (single instance)
Hexamethylene-1,6Diisocyanate	822-06-0	PNEC	8.42 $^{mg}/_{l}$	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2,6-tert-Butyl-p-cresol; Dibutylhydroxytoluene; BHT	128-37-0	PNEC	0.199 $^{µg}/_{l}$	aquatic organisms	freshwater	short-term (single instance)
2,6-tert-Butyl-p-cresol; Dibutylhydroxytoluene; BHT	128-37-0	PNEC	0.02 $^{µg}/_{l}$	aquatic organisms	marine water	short-term (single instance)
2,6-tert-Butyl-p-cresol; Dibutylhydroxytoluene; BHT	128-37-0	PNEC	0.17 $^{mg}/_{l}$	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2,6-tert-Butyl-p-cresol; Dibutylhydroxytoluene; BHT	128-37-0	PNEC	99.6 $^{µg}/_{kg}$	aquatic organisms	freshwater sediment	short-term (single instance)
2,6-tert-Butyl-p-cresol; Dibutylhydroxytoluene; BHT	128-37-0	PNEC	9.96 $^{µg}/_{kg}$	aquatic organisms	marine sediment	short-term (single instance)
2,6-tert-Butyl-p-cresol; Dibutylhydroxytoluene; BHT	128-37-0	PNEC	47.69 $^{µg}/_{kg}$	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	not determined
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	not determined
Flammability	non-combustible
Lower and upper explosion limit	not determined
Flash point	not determined
Auto-ignition temperature	not determined
Decomposition temperature	not relevant
pH (value)	not determined
Kinematic viscosity	not determined

Solubility(ies)

Water solubility	miscible in any proportion

Partition coefficient

Partition coefficient n-octanol/water (log value)	this information is not available

Vapour pressure	not determined

Density and/or relative density

Density	not determined
Relative vapour density	information on this property is not available

Particle characteristics	not relevant (liquid)

9.2 Other information

Information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant

Other safety characteristics

Miscibility	Completely miscible with water.
Solid content	29.01 %

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to GHS

This mixture does not meet the criteria for classification.

Acute toxicity

Shall not be classified as acutely toxic.

- Acute toxicity estimate (ATE)

Dermal 4,297 $^{mg}/_{kg}$

Acute toxicity estimate (ATE) of components

Name of substance	CAS No	Exposure route	ATE
Homopolymer of Hexamethylene Diisocyanat	28182-81-2	dermal	>2,000 $^{mg}/_{kg}$
Homopolymer of Hexamethylene Diisocyanat	28182-81-2	inhalation: dust/mist	0.5 $^{mg}/_{l}$/4h
Ethyl 3-ethoxypropanoate	763-69-9	dermal	4,080 $^{mg}/_{kg}$
xylene	1330-20-7	oral	3,523 $^{mg}/_{kg}$
xylene	1330-20-7	dermal	1,100 $^{mg}/_{kg}$
xylene	1330-20-7	inhalation: vapour	11 $^{mg}/_{l}$/4h
ethyl benzene	100-41-4	oral	3,500 $^{mg}/_{kg}$
ethyl benzene	100-41-4	inhalation: vapour	11 $^{mg}/_{l}$/4h
Hexamethylene-1,6Diisocyanate	822-06-0	oral	959 $^{mg}/_{kg}$
Hexamethylene-1,6Diisocyanate	822-06-0	inhalation: vapour	0.124 $^{mg}/_{l}$/4h
2,6-tert-Butyl-p-cresol; Dibutylhydroxytoluene; BHT	128-37-0	dermal	>2,000 $^{mg}/_{kg}$

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

12.2 Persistence and degradability

Biodegradation

The relevant substances of the mixture are readily biodegradable.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of ≥ 0,1%.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of ≥ 0,1%.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number — not subject to transport regulations

14.2 UN proper shipping name — not relevant

14.3 Transport hazard class(es) — none

14.4 Packing group — not assigned

14.5 Environmental hazards — non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Special precautions for user

There is no additional information.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

There is no additional information.

National regulations (New Zealand)

New Zealand Inventory of Chemicals (NZIoC)

NZIoC

Name of substance	CAS No	Approval status
ethyl benzene	100-41-4	HSNO Approval: HSR001151
xylene	1330-20-7	HSNO Approval: HSR000983

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Key literature references and sources for data

Globally Harmonized System of Classification and Labelling of Chemicals ("Purple book").

UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.
Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.